

## ABSTRACT

A microsystem adapted for dielectrophoretic manipulation of particles in a suspension liquid wherein the microsystem has a channel with channel walls and a longitudinal extension. An electrode arrangement is present which has at least one microelectrode on at least one of the channel walls. This acts to generate a field barrier which crosses the channel at least partly. The microelectrode has a band-shape or has a multitude of straight electrode sections connected to each other. The band-shape has a predetermined curvature or the straight electrode sections are arranged with predetermined different angles so that the field barrier has a predetermined curvature relative to the longitudinal extension of the channel.